

# PIPE INSPECTION CAMERA

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Please read the manual carefully before operating the system.

Please charge the battery before use.



MANUAL

# Catalog



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# Safety and Notice



## Warning

To Avoid electrical shock put the item indoor when Charging



## Warning

Please use DC5V 2A charger. Please use qualified type-C data cable for charging;  
The reminder charging time is 6 hours. Please charge the battery before use!

1. Please check the appearance and functionality of the goods upon receipt. In the event of damaged or missing goods, please forward images to us within 3 working days, Otherwise, we will not be able to provide after-sales service
2. Working environment of camera system  $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ( $14^{\circ}\text{F}\sim 122^{\circ}\text{F}$ ) $\leq 95\%$  RH; Storage environment:  $-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$ ( $-4^{\circ}\text{F}\sim 158^{\circ}\text{F}$ )  $\leq 95\%$  RH.
3. The warranty becomes void if any physical damage is present by user or force majeure factors or if the system is disassembled or connect non-factory parts by the user
4. Do not disconnect the memory card during recording or playback, as this may damage the system or the memory card.
5. Remember to back up the data on the memory card at any time.
6. Before using the memory card for the first time, it is recommended to use the detection system to format the memory card.
7. Remember to slide the write protector to the unlocked position. Otherwise, all data on the memory card will be protected and the memory card cannot be edited or formatted.
8. Use only original accessories to avoid possible risks to health and property, so as to comply with all relevant legal regulations.
9. Keep the controller dry.
10. Do not drop, tap or shake the camera system. Improper behavior when using the camera system may damage the internal electronic circuit board or deform the lens shape.
11. Confirm that all accessories are connected before system startup.
12. Do not disassemble the camera, coil, memory card and other accessories when it is turned on. If it needs to be replaced, please do it when it is turned off.

# 1. Parts list

## 1.1. Accessories

Item	Image	Description	Optional
Suitcase		<ul style="list-style-type: none"> <li>Size : L440 * W395 * H165mm</li> <li>Material: fireproof board and aluminum alloy</li> </ul>	Standard
Controller		<ul style="list-style-type: none"> <li>Display: 7 inch TFT</li> <li>Monitoring &amp; Video recording</li> <li>Storage medium: 8GB TF Card and SD card holder( max 256GB)</li> <li>Battery : Polymer lithium battery 3.7V 10000mAh 37Wh</li> </ul>	Standard
Cable Wheel		<ul style="list-style-type: none"> <li>Size : <math>\varnothing</math> 330*145mm</li> <li>Metal material: stainless steel</li> <li>Cable core material: glass fiber rod</li> <li>Cable diameter: <math>\varnothing</math> 5.0mm</li> </ul>	Standard
Camera Head		<ul style="list-style-type: none"> <li>Camera head size : <math>\varnothing</math>23mmX134mm</li> <li>Skid size : <math>\varnothing</math>40mm &amp; <math>\varnothing</math>80mm</li> </ul> 	Standard
headset		<ul style="list-style-type: none"> <li>Length : 1.5m</li> </ul>	Standard
Charging line		<ul style="list-style-type: none"> <li>Length : 1m</li> </ul>	Standard
TF card, card sleeve and card reader		<ul style="list-style-type: none"> <li>8GB TF card, SD card holder, card reader</li> </ul>	Standard
Waterproof ring			Standard
Manual			Standard
Screwdriver		<ul style="list-style-type: none"> <li>2.5mm</li> </ul>	Standard




1.2. Controller



1	Headset socket	9	Record
2	Menu	10	ON/OFF
3	Menu back	11	Work indicator
4	UP/ZOOM+	12	Charging indicator
5	Down/ZOOM-	13	SD Card Slot
6	Left/ backward	14	LED brightness controller
7	Right/ Fast forward	15	Charging socket
8	Photo/OK/ Photo folder		

## 2. Quick Start Guide




### 2.1. Connection

1. Loosen the hand screw of the universal support and pull up the controller.	2. Loosen the screws on both sides of the controller and open the sunshade.	3. Clip the cable into the hook.
		
4. Install the camera head.	5. Loosen the brake hand screw.	6. Installation is completed.
		

#### Be careful:

Check the waterproof ring between all connections.

### 2.2. Charge the Battery

1. Connect the charging line to the dc5v2a power supply.	2. Connect the plug to the type-C interface of the controller.	3. When charging is completed, the charging indicator will change from red to green.
		

## 2.3. Assembling SKID

### 2.3.1. $\Phi 23$ mm camera with 40mm skids.

1. Put the camera in the stand. 	2. Tighten the screws on the outside of the skid to fix the skid. 	3. The skid is installed. 
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### 2.3.2. $\Phi 23$ mm camera with 80mm skids

1. Put the camera in the stand. 	2. Tighten the screws on the outside of the skid to fix the skid. 	3. The skid is installed. 
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## 2.4. Starting up






<p><b>1. Insert the TF card with SD card sleeve.</b></p> 	<p><b>2. start-up</b> Long press the ON/OFF button for 3 seconds to turn on.</p> 	<p><b>3. Record video</b> Press this button to record, press again to stop recording.</p> 
<p><b>4. Take photo &amp; playback</b> Press this button to take photo. Long press button to playback.</p> <p><b>OK</b></p> 	<p><b>5. Sound recording</b> Support recording audio through microphone when recording video (need to connect headset).</p> 	<p><b>6. Zoom in and out</b> Press these two buttons to zoom in and zoom out image when recording.(max 8 levels)</p> <p> </p> <p>When playing a video, you can use these two buttons to adjust the volume</p>
<p><b>7. Adjust volume</b> When recording a video, you can use these two buttons to adjust the volume</p> <p> </p> <p>When play video or photo, also use these two buttons to choose video or photo.</p>	<p><b>8. Adjust lights of camera</b> Turn the potentiometer to adjust the light.</p> 	<p><b>9. Play video</b> Press these two buttons to play video.</p> <p> <b>OK</b></p> 
<p><b>10. Video fast forward</b> When play back video, press <b>OK</b> button to pause the video, and press   buttons to fast forward and backward the video.</p>	<p><b>11. Delete video</b> Select the video and press this button to delete it.</p> <p></p> 	





### Be careful:

- ◆ Note the orientation of the memory card.
- ◆ Please do not plug or unplug the memory card during photographing / video recording.

## 3. Menu

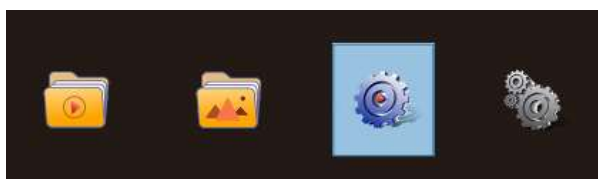
Press  to enter menu. Press     choose the items.

Press  enter submenu. Press  enter upper submenu until to homepage.

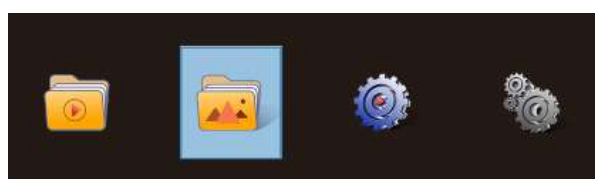
### Play Video



### Video settings



### Play Photo

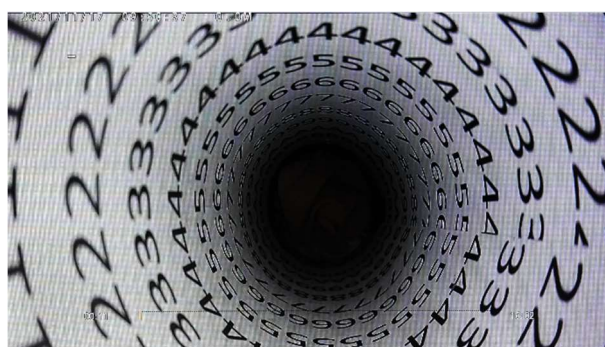
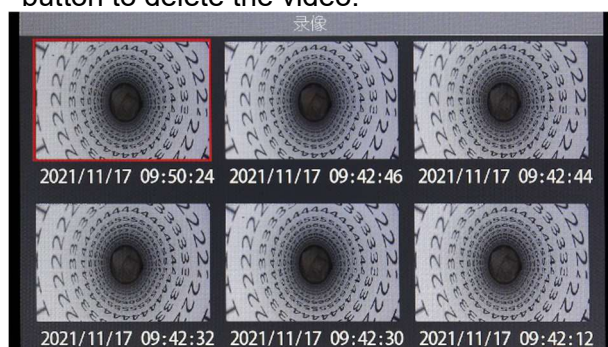


### System settings



### 3.1. Play Video

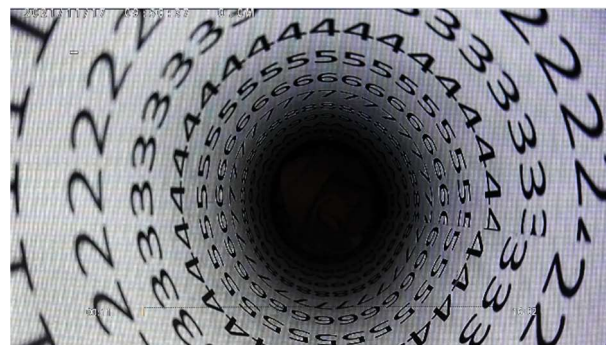
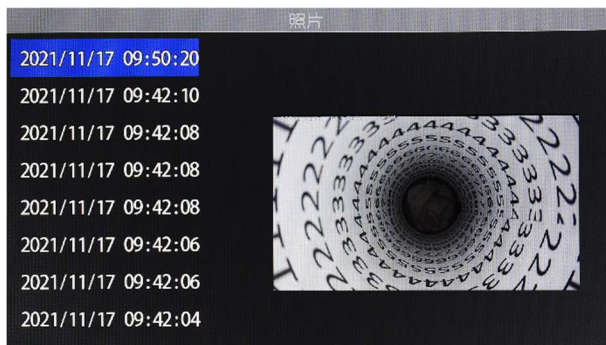
- "OK" button to play video, "◀▶" backward/ Fast forward, "▲▼" adjust the volume, "MENU" button to delete the video.



### 3.2. Play Photo

The photo folder can be opened in the menu, or you can press and hold the "OK" button for 3 seconds to quickly open it.

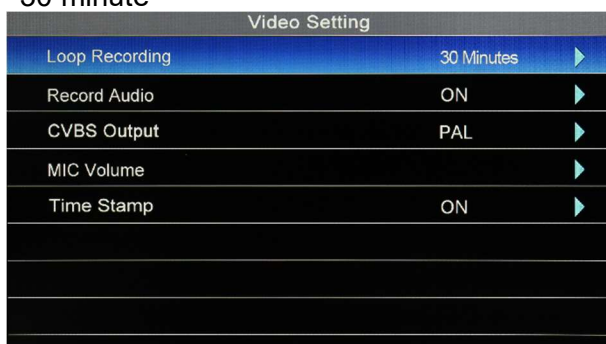
- "OK" button to view photos, "MENU" button to delete photos.



### 3.3. Video settings

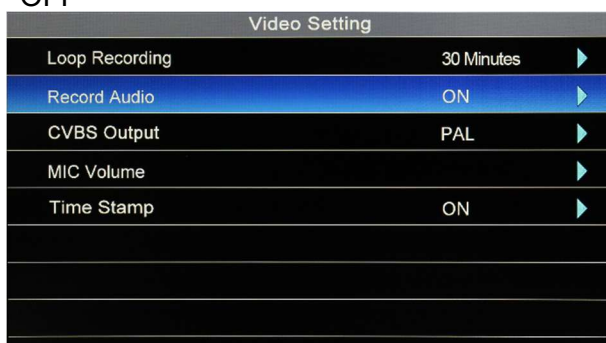
#### 3.3.1. Set the length of time to record video

- 5 minute
- 15 minute
- 30 minute



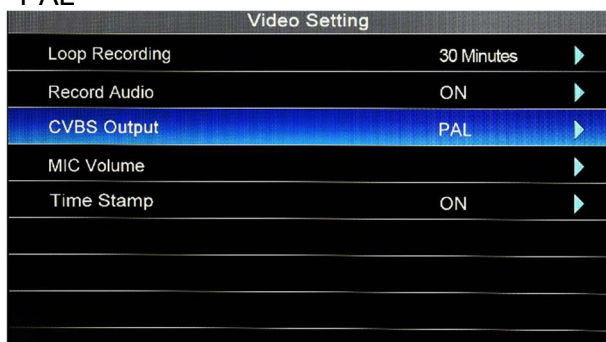
#### 3.3.2. Record Audio

- ON
- OFF



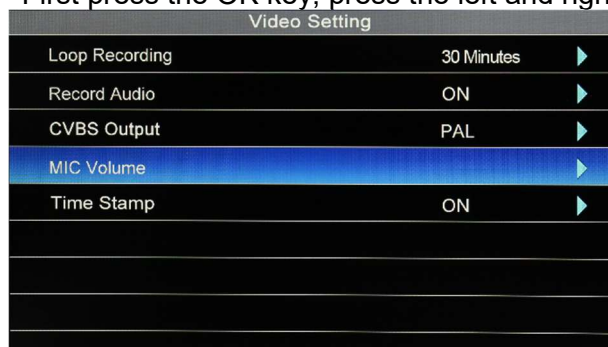
#### 3.3.3. CVBS output

- NTSC
- PAL



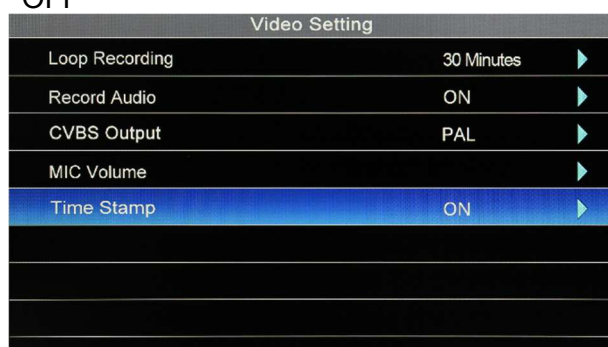
### 3.3.4. Mic volume

- First press the OK key, press the left and right keys to adjust the volume



### 3.3.5. Time Stamp

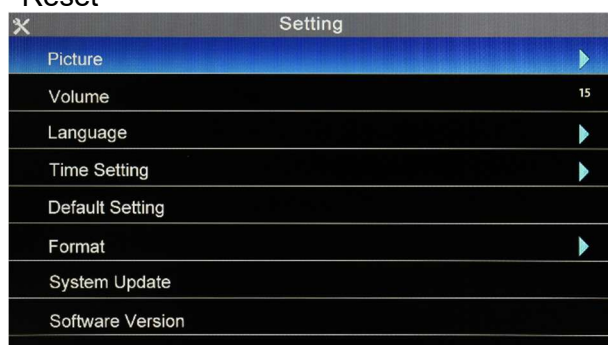
- ON
- OFF



## 3.4. System settings

### 3.4.1. Picture

- Brightness
- Contrast
- Chroma
- Reset



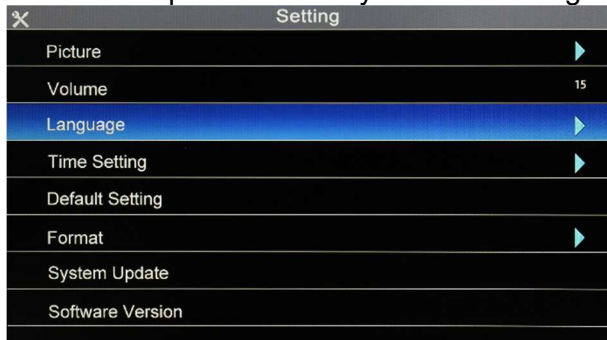
### 3.4.2. Volume

- Press the left and right keys to adjust the volume



### 3.4.3. Language

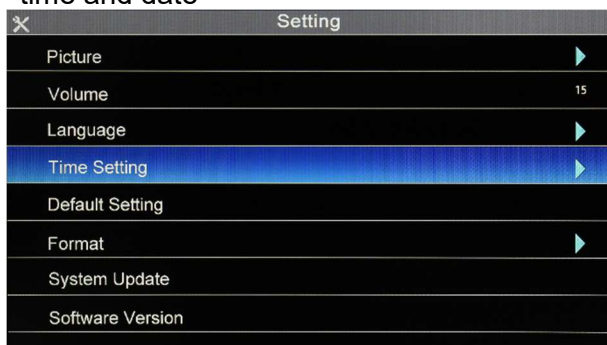
- Press the up and down keys to set the language



### 3.4.4. Time

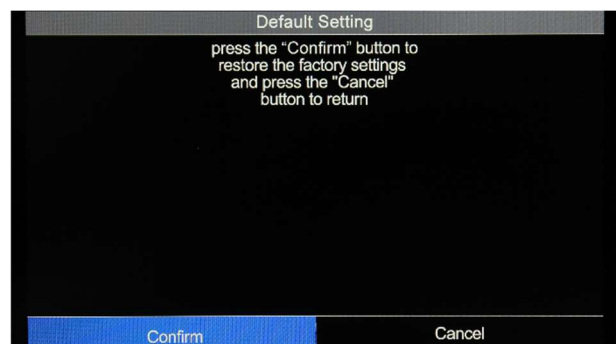
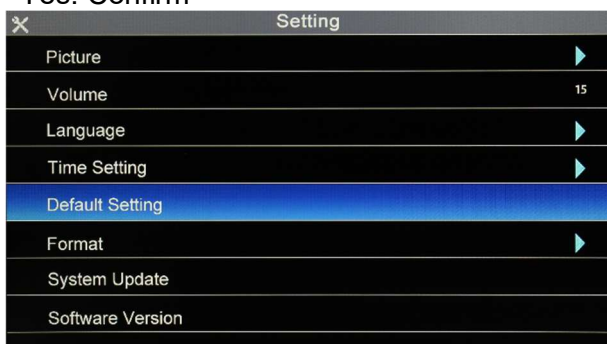
Date and time

Press the up and down keys to set the date and time, and press the left and right keys to select the time and date



### 3.4.5. Default Setting

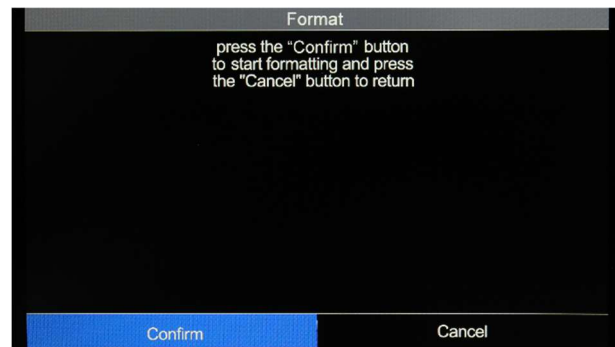
- No: Cancel
- Yes: Confirm



### 3.4.6. Format

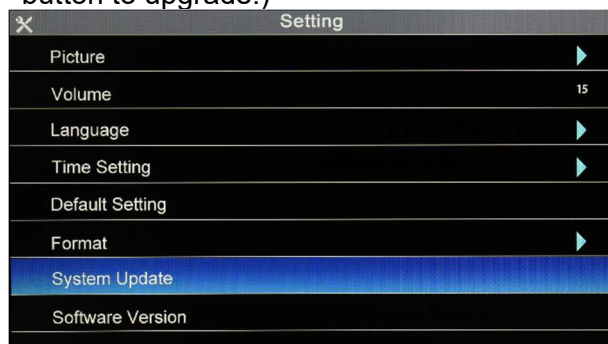
- No: Cancel
- Yes: Format SD card(Note: please back up the data in the SD card before operation)





### 3.4.7. Firmware update

- No: Don't upgrade system
- Yes: Start to upgrade (Need to insert the SD card with the upgrade program, press the "OK" button to upgrade.)



### 3.4.8. View software version

- View software version, date

